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FM 30-55

WAR DEPARTMENT

BASIC FIELD MANUAL

MILITARY INTELLIGENCE

IDENTIFICATION OF GERMAN NAVAL SHIPS

June 19, 1941

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FM 30-55

BASIC FIELD MANUAL

MILITARY INTELLIGENCE IDENTIFICATION OF GERMAN NAVAL SHIPS

Prepared under direction of the Chief of Staff



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1941

WAR DEPARTMENT, WASHINGTON, June 19, 1941.

FM 30-55, Military Intelligence, Identification of German Naval Ships, is published for the information and guidance of all concerned.

[A. G. 062.11 (5-2-41).]

By ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL, Chief of Staff.

OFFICIAL:

E. S. ADAMS,

Major General,

The Adjutant General.

DISTRIBUTION:

(For explanation of symbols, see FM 21-6.) R and H 1 (10), 4 (3); I Bn 1 (15); IC and H 4 (5).





BASIC FIELD MANUAL

MILITARY INTELLIGENCE

IDENTIFICATION OF GERMAN NAVAL SHIPS

The material contained in this manual has been secured from many sources. It is the best material available, but may be incomplete and, in some respects, inaccurate.

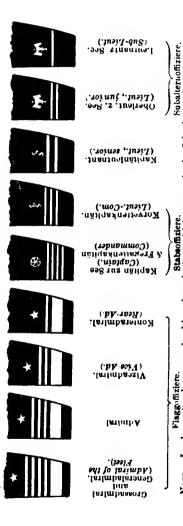
This manual, containing illustrations with explanatory data relative to German naval ships, is published for limited distribution. It will be used for instruction of officers and men in the appearance and general characteristics of German naval vessels and will be safeguarded as prescribed in AR 380-5.

NATIONAL PLAG FOR MERCHANT SHIPS COMMANDED BY NAVAL RESERVE OFFICERS Yellow REAR ADMIRAL Red PLOWN FROM UPPER SIGNAL YARD WHEN FLOWN FROM MAIN MAST VICE ADMIRAL STATE SERVICE FLAG (Fleet Auxiliaries) PLOTILLA NATIONAL FLAG And Jack C-IN-C. OF MAYT HINESWEEPIN DESTROYER OF 8 O. CBE. BUBMARINE PLOTILLAS PUBRER'S STANDARD ENSTON

FLAGS

UNIFORMS

Insignia of rank on sleeves



3 Uniforms and distinguishing marks of rank are the same for officers of all branches of the service; Note.—In above sketch, a star should replace devices which appear in the 5 junior ranks. place of the star on the sleeve, which distinguishes the military branch, there is worn by: Engineer Officers, a pinion wheel 9

The difference between a Kapuanzur See and a Fregattenkapuan is indicated by stars on the shoulder As in sketches above. Accountant Officers, the winged staff of Hermes Medical Officers, the rod of Æsculapius

Kommodores wear the same sleeve stripes as a Kapitan zur See, but with the cords and shoulder bands of a Flag Officer.

NAVAL GUNS

Approximate distribute distribute.		foot tons.	31,600		6,690 5,990	:
Danger space against average ships at	3000	yards.	740		420	:
	2000	yards.	450		200	:
	10,000	yards.	150		: :	:
mumisuM insneriention, seminosci Aselessi seminosci semi	3000 yds.	ë :	14		:10	:
	yds.	ë :	10		: :	:
	7 ds.	Ē:	9		: :	:
Initial Velocity.		foot-sees.	2756		2920	:
Joda . T. A to shall Weight		lbs. 670	661.4		1014	38.5
.nuO lo sight.		tons.	32.9		5 5	:
Date of Model.		36	.0.		::0	,16 ,28
լ-բուցքի in cale.		:	9		50 45	45 50 A.A. A.A.
Ususi Naval Designation.		c/m. 38·1	8	20.3	15 15 12.7	10 5 10 5 10 5 90
erdifaO		inch. 15	:=	œ	5.9 5.9 5	4·1 4·1 3·5

Brass cartridge cases to all guns

in. springs

In 5.9

All models have the recoil utilized to return the gun to firing position for pieces over 5.9 inch. Lesser guns: 3.4 inch (88 m/m) firing 22 lb. projectiles in modern and 15 lb. in old models. are employed. German guns have a lower muzzle pressure than normally obtains. Projectiles: Guns of 11 inch and over fire A. P., Ersatz A. P., H. E., and common shell. 11 inch, 40 cal., M. '01 in Schlesien and Schleswig-Holstein. 44. guns: 4.1 inch, 3.5 inch on H. A. mounts ("Flak").

GERMAN NAVY



This illustration is from a magazine

BATTLESHIPS BISMARCK-TIRPITZ CLASS

BISMARCK-TIRPITZ CLASS

BISMARCK TIRPITZ

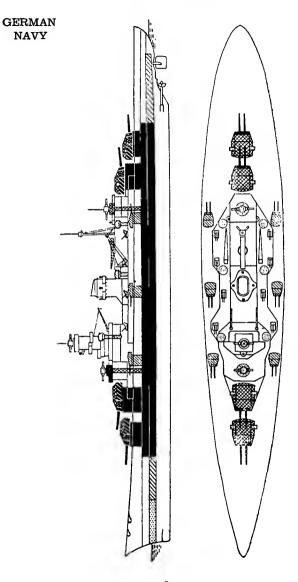
35.000 tons. Description:

793 feet (over-all) by 118 feet by 26 feet draft. 30 knots (?).

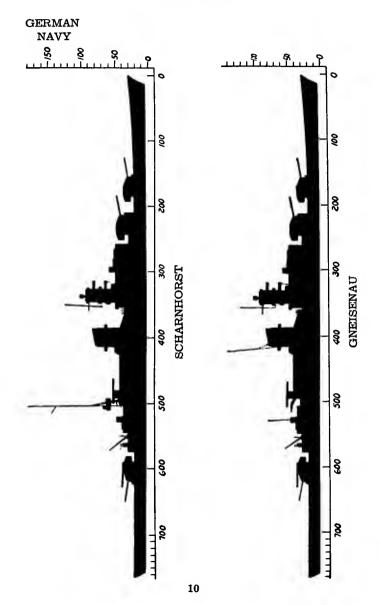
8-15 inch, estimated 50/52 caliber. 12-5.9 inch. 16-4.1 inch. Guns:

Torpedo tubes: None.

Airplanes: 4. Catapults: 2.



BATTLESHIPS BISMARCK-TIRPITZ CLASS



BATTLESHIPS SCHARNHORST CLASS

COMPARISON SCHARNHORST CLASS

SCHARNHORST GNEISENAU

Description:

26,000 tons.

742 feet (water-line) by 99 feet by 25 feet draft.

30 knots (?).

Guns:

9-11 inch. 12-5.9 inch.

14-4.1 inch. 16-37-mm AA. Various smaller.

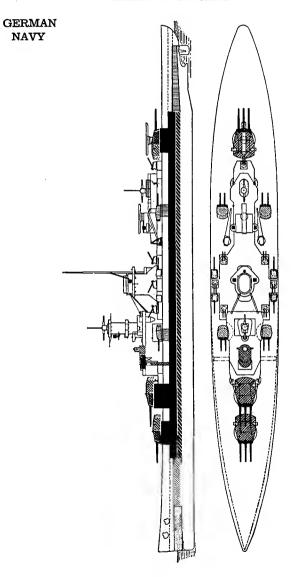
Torpedo tubes: None.

Airplanes:

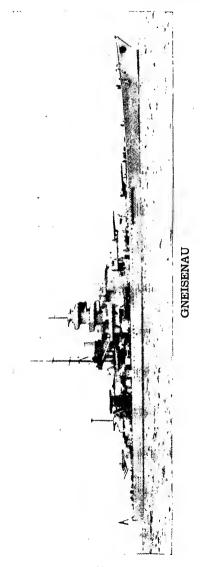
4. Catapults: 2.

Remarks:

Changes suspected but none confirmed. Gneisenau has higher slanting stack cap than Scharnhorst.



BATTLESHIPS SCHARNHORST CLASS

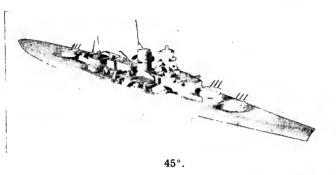


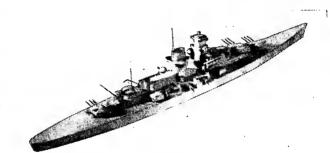
GERMAN NAVY



Changes suspected but none confirmed.

BATTLESHIP GNEISENAU





135°. Depression angle 15°.

Description: 26,000 t

26,000 tons. 742 feet (water-line) by 99 feet by 25 feet draft.

30 knots (?).

Guns: 9-11 inch.

14-4.1 inch. 12-5.9 inch. 16-37-mm AA.

Plus various smaller.

Torpedo tubes: None.

Airplanes: 4.

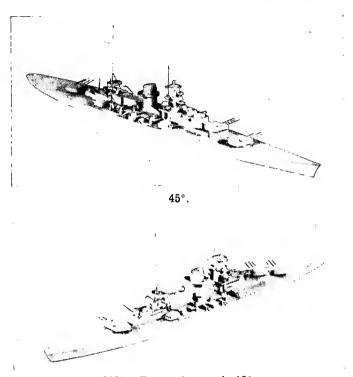
320175°—41——3

GERMAN NAVY



Changes suspected but none confirmed.

BATTLESHIP SCHARNHORST



135°. Depression angle 15°.

Description:

26,000 tons.

742 feet (water-line) by 99 feet by 25 feet draft.

30 knots (?).

Guns:

9-11 inch. 14-4.1 inch.

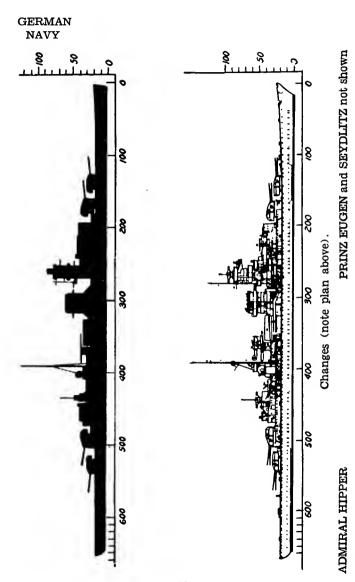
12-5.9 inch. 16-37-mm AA.

Plus various smaller.

Torpedo tubes: None.

Airplanes:

4.



HEAVY CRUISERS HIPPER CLASS

COMPARISON HIPPER CLASS (CA)

HIPPER PRINZ EUGEN SEYDLITZ

Description:

Hipper: Others:

10,000 tons. 640 feet by 70 feet by 16 feet draft. 655 feet by 71 feet by 15 feet draft.

33 knots.

8-8 inch. Guns:

12-4.1 inch. 12-37-mm AA. Various smaller.

Torpedo tubes: 12.

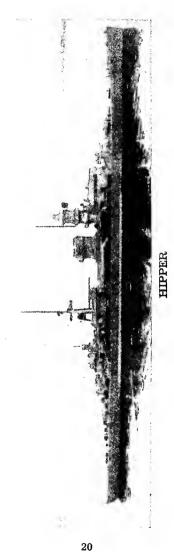
Airplanes: 3.

Remarks: HIPPER-Clipper bow, slanting stack added.

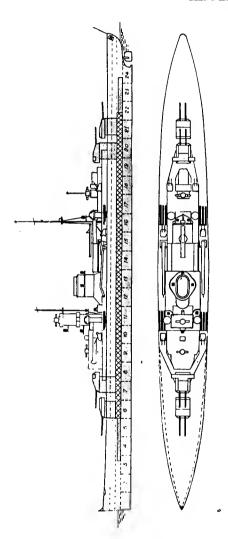
PRINZ EUGEN-Same as HIPPER, save first pair of AA directors moved aft and on stack platform. SEYDLITZ-May be similar to above, but not con-

firmed.

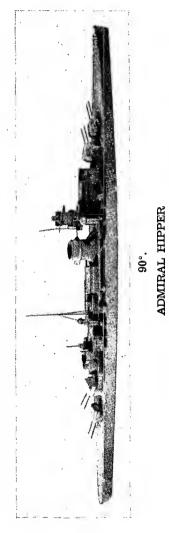
GERMAN NAVY



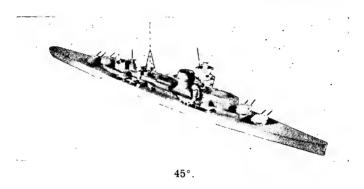
HEAVY CRUISERS HIPPER CLASS

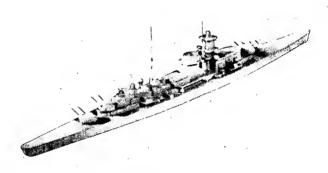


GERMAN NAVY



HEAVY CRUISER ADMIRAL HIPPER





135°. Depression angle 15°.

Description:

10,000 tons.

640 feet by 70 feet by 16 feet draft.

30 knots.

Guns:

8-8 inch. 12-4.1 inch.

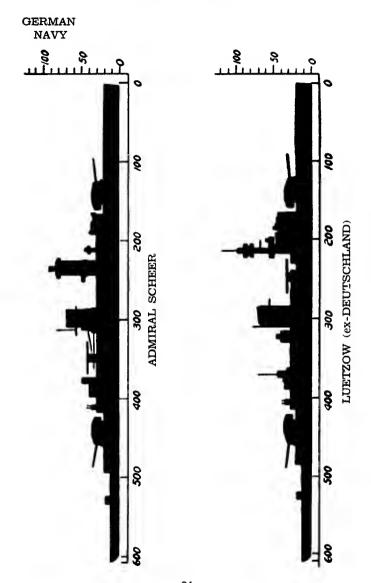
12-37-mm AA.

Various smaller.

Torpedo tubes: 12.

Airplanes: 3.

320175°-41---4



ARMORED SHIPS POCKET BATTLESHIP CLASS

COMPARISON POCKET BATTLESHIP CLASS

ADMIRAL SCHEER LUETZOW

Description: 10,000 tons.

610 feet (over-all) by 70 feet by 22 feet draft.

26 knots.

6-11 inch. Guns:

8-5.9 inch. 6-4.1 inch. 8-3 pound AA. 10-machine guns.

Torpedo tubes: 8.

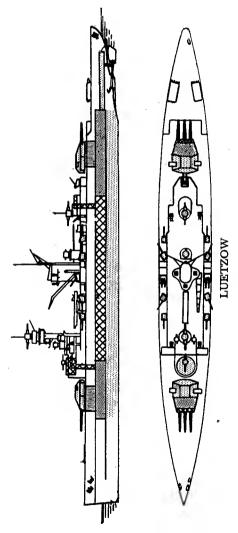
Airplanes: 2.

Remarks: ADMIRAL SCHEER-Report addition of clipper bow,

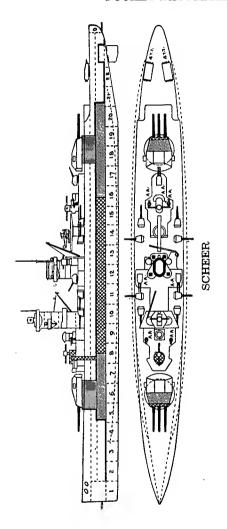
slanting stack cap, and short mainmast. LUETZOW—No reported changes but some sus-

pected.

GERMAN NAVY



ARMORED SHIPS POCKET BATTLESHIP CLASS



GERMAN NAVY





ADMIRAL SCHEER

POCKET BATTLESHIPS ADMIRAL SCHEER



45°.



135°. Depression angle 15°.

Description;

10,000 tons. 26 knots.

Guns:

6-11 inch. 6-4.1 inch. 8-5.9 inch. 8-3 pound AA.

10-machine guns.

Torpedo tubes: 8.

Airplanes:

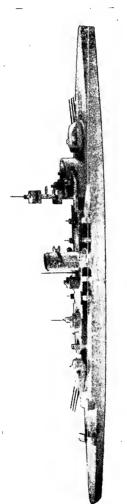
2.

Remarks:

Report addition of clipper bow, slanting stack cap, and short mainmast.

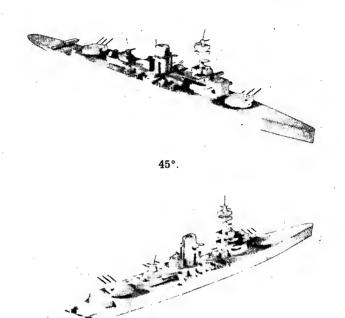
GERMAN NAVY

S



UETZOW

POCKET BATTLESHIPS LUETZOW



135°. Depression angle 15°.

Description: 10,000 tons.

26 knots.

Guns: 6-11 inch.

6-11 inch. 6-4.1 inch. 8-5.9 inch. 8-3 pound AA. 10-machine guns.

Torpedo tubes: 8.

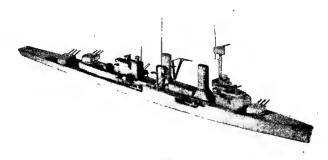
Airplanes: 2.

Remarks: No reported changes but some suspected.

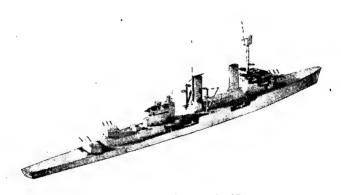
320175°-41---5

GERMAN NAVY

CRUISER KÖLN



45°.



135°. Depression angle 15°.

Description:

6,000 tons.

570 feet by 50 feet by 18 feet draft.

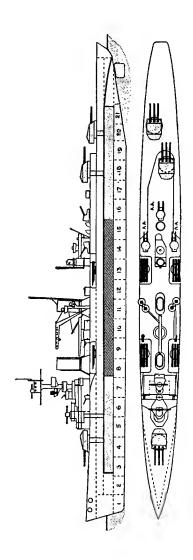
32 knots.

Guns:

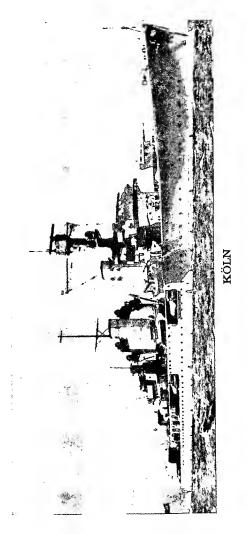
9-5.9 inch, .50 caliber. 8-3 pound AA. 6-3.5 inch AA. 4-machine guns.

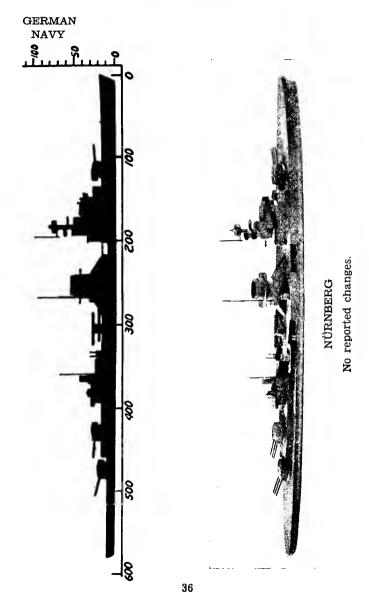
Torpedo tubes: 12.

2. Airplanes:

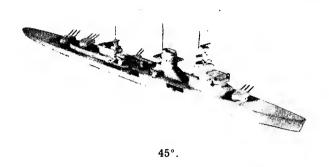


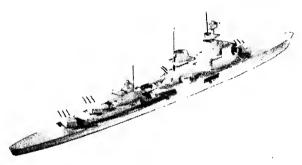
CRUISER KÖLN





CRUISER NÜRNBERG





135°. Depression angle 15°.

Description:

558 feet (plimsoll point) by 54 feet by 15 feet draft. 32 knots.

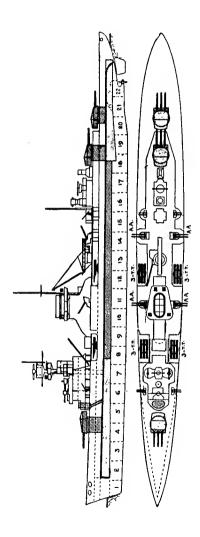
9-5.9 inch. Guns:

8-3.5 inch. 8-3 pound AA.

4-machine guns.

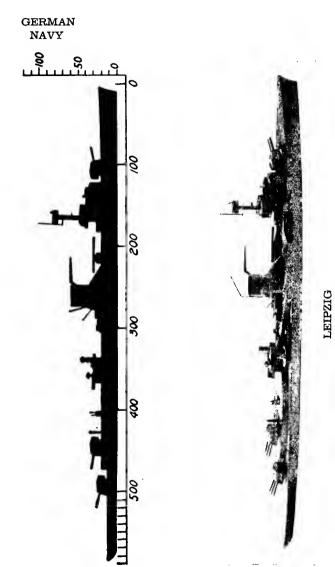
Torpedo tubes: 12.

Airplanes: 2.



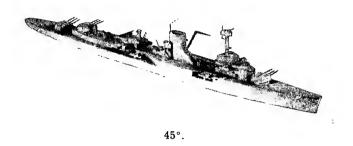
CRUISER NÜRNBERG





This ship may have been sunk December 13, 1939.

CRUISER LEIPZIG





135°. Depression angle 15°.

Description:

6,000 tons.

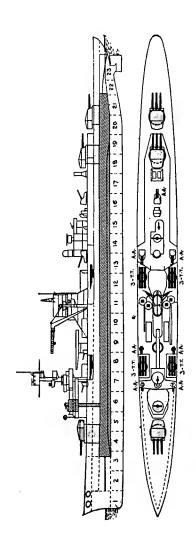
580 feet (over-all) by 54 feet by 16 feet draft 32 knots.

Guns:

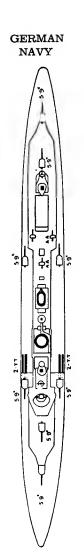
9-5.9 inch. .50 caliber. 8-3 pound AA. 4-machine guns. 6-3.5 inch AA.

Torpedo tubes: 12.

Airplanes: 2.

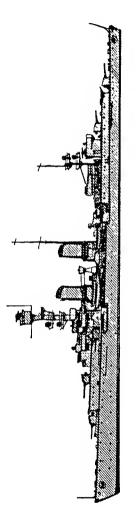


CRUISER LEIPZIG





CRUISER EMDEN



Description:

5,400 tons. 509 feet (over-all) by 47 feet by 18 feet draft.

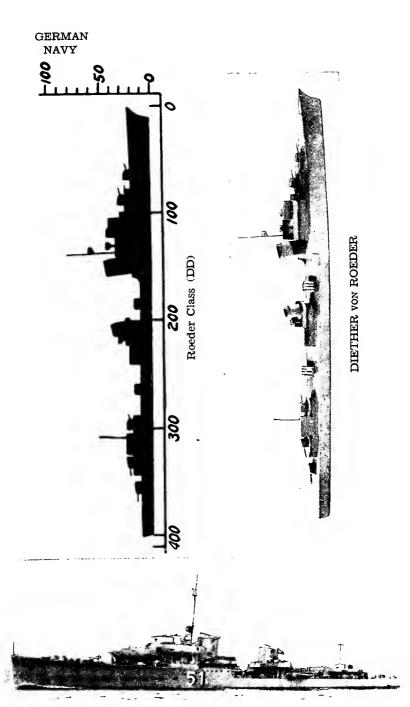
29 knots.

Guns: 8-5.9 inch, .45 caliber. 3-3.5 inch AA.

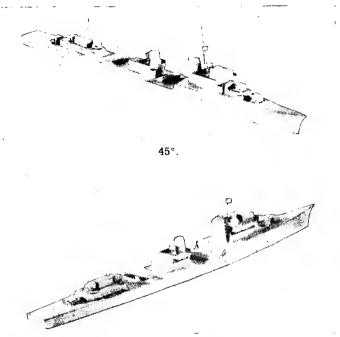
4-machine guns.

Torpedo tubes: 4.

Airplanes: None.



DESTROYER DIETHER VON ROEDER



135°. Depression angle 15°

DIETHER VON ROEDER KARL GALSTER

Description: 1.811 tons.

384 feet by 39 feet by (?).

36 knots.

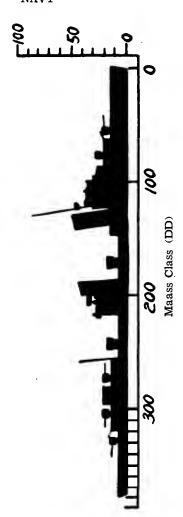
Guns:

5-5 inch. 4-20-mm AA. 4-37-mm AA.

Torpedo tubes: 8.

Airplanes:

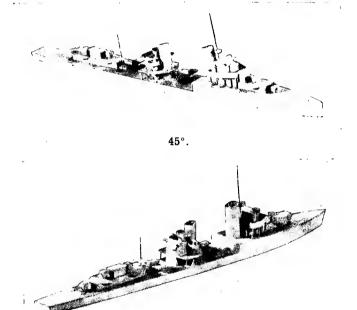
None.





DESTROYER LEBERECHT MAASS BEITZEN CLASS

GEORGE THIELE RICHARD BEITZEN PAUL JACOBI THEODOR RIEDEL HERMAN SCHOENAN BRUNO HEINEMAN HANS LODY FRIEDRICH IHN ERICH STEINBRINCK FRIEDRICH ECKOLDT



135°. Depression angle 15°.

Description:

1.625 tons.

374 feet by 37 feet by (?).

Guns:

36 knots. 5-5 inch.

4-20-mm AA. 4-37-mm AA.

Torpedo tubes: 8.

Airplanes:

None.

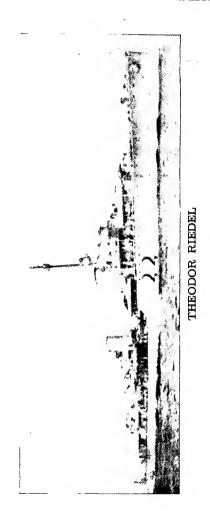
Remarks:

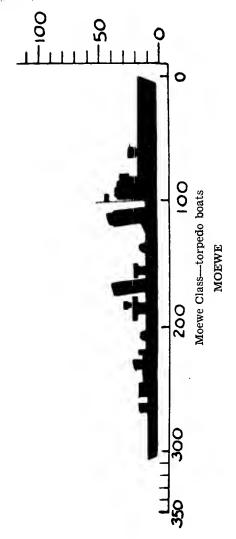
Funnels should be higher and have more promi-

nent stack caps.



DESTROYER BEITZEN CLASS





TORPEDO BOATS MOEWE CLASS

MOEWE CLASS

MOEWE

Description:

MOEWE: 800 tons.

292 feet by 27 feet by (?).

34 knots.

Guns:

3-4.1 inch, .50 caliber. 2-1 pound AA.

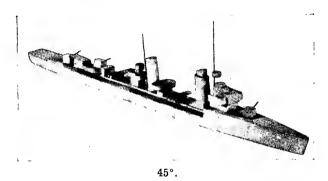
Remarks:

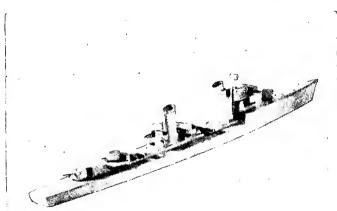
MOEWE class has stack casings carried higher and has slanting tops (at right angles to longitudinal axis of stack); shorter slanting stack caps with first stack closer to foremast.



TORPEDO BOATS MOEWE

MOEWE ALBATROS GREIF SEEADLER FALKE KONDOR





135°. Depression angle 15°.

Description:

800 tons. 292 feet by 27 feet by (?).

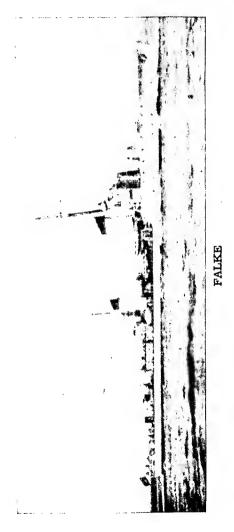
34 knots.

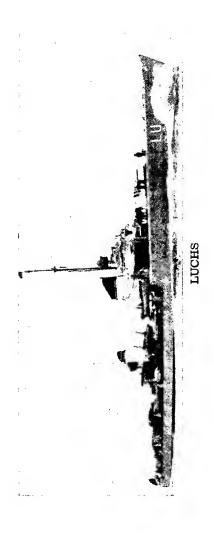
3-4.1 inch, .50 caliber. 2-1 pound AA. Guns:

Torpedo tubes: 2 triple.



TORPEDO BOATS MOEWE CLASS





TORPEDO BOATS ILTIS CLASS

ILTIS LEOPARD WOLF LUCHS JAGUAR TIGER

Similar in appearance to Moewe class—see Moewe class for silhouettes.

Description:

800 tons.

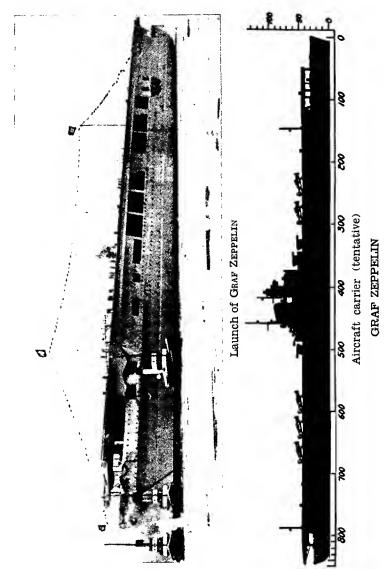
304 feet by 28 feet by 9 feet draft.

34 knots.

Guns:

3--4.1 inch (on Leopard, Luchs, 5 inches). 2–1 pound AA.

Torpedo tubes: 2 triple.



AIRCRAFT CARRIER GRAF ZEPPELIN CLASS

GRAF ZEPPELIN CLASS

GRAF ZEPPELIN DEUTSCHLAND

Description: 19,250 tons.

821 feet by 89 feet by (?).

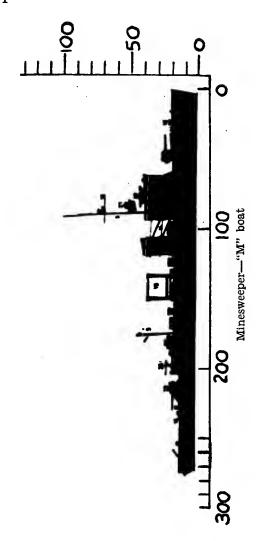
32 knots.

Guns: 16-5.9 inch.

10-4.1 inch. 22-37-mm AA.

Torpedo tubes: None.

Airplanes: 40.



MINESWEEPER "M" BOAT

"M" BOAT CLASS

Description: 600 tons. 17 knots.

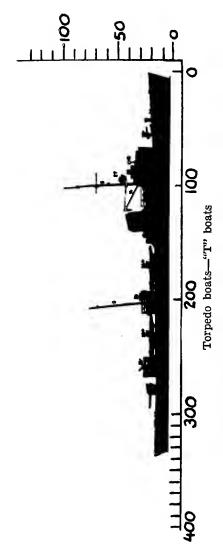
Guns:

2-4.1 inch.

2-37-mm.

Remarks: Do not confuse with "T" boats. Note marked simi-

larity.



TORPEDO BOATS "T" BOAT

"T" BOAT CLASS

"T" BOATS

Description: 600 tons

600 tons. 267 feet by 29 feet by (?).

36 knots.

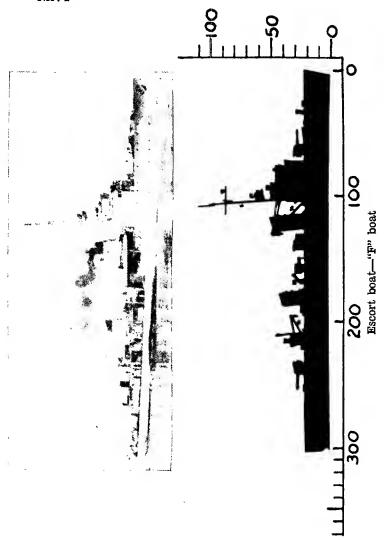
Guns: 1-4.1 inch.

6-37-mm.

Torpedo tubes: 6.

Remarks: Do not confuse with "M" boats, which class type

resembles closely.



ESCORT BOAT "F" BOAT

"F" BOAT CLASS

F 1	Hai
F 2	F 7
Koenigin Luise	F 8
F 4	F 9
F 5	F 10

Description: 600 tons. 250 feet (over-all) by 29 feet by (?).

28 knots.

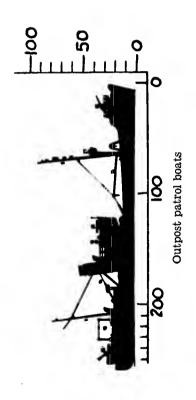
Guns:

2-4.1 inch, .50 caliber. 2-1 pound AA. 4-37-mm AA.

Remarks:

Watch for variations in deck profile. Fitted for

mine laying.



OUTPOST PATROL BOATS

Description: 496 tons. 125 feet by 23 feet by (?).

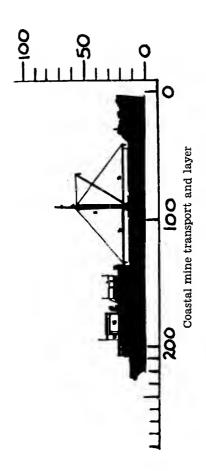
10 knots.

Guns: 1-3.5 inch.

3-1 pound AA.

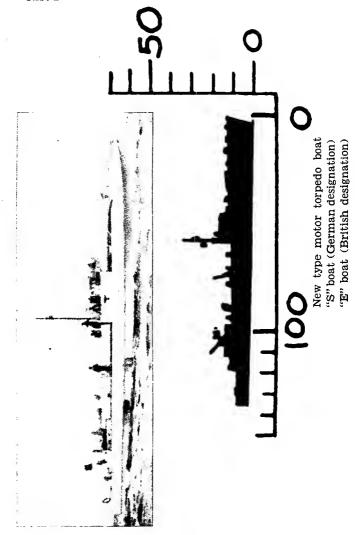
Remarks: These are converted fishing trawlers and will vary in

size and silhouettes.



COASTAL MINE TRANSPORT AND LAYER

Description: 1,253 tons. 10 knots.



NEW TYPE MOTOR TORPEDO BOAT

MOTOR TORPEDO BOAT CLASS

S 6 TO 37 S 38 TO 57

Description:

S 6 to 37:

62 tons. 93 feet.

30-36 knots.

S 38 to 57:

86 tons. 105 feet.

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Guns:

S 6 to 37:

2-1 pound AA.

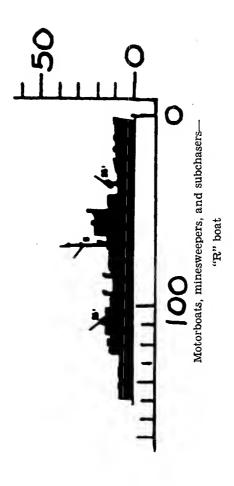
1-20-mm AA. 2-47-mm AA.

S 38 to 57: 2-47-mm AA

Torpedo tubes: 2.

Remarks:

Vary in size and silhouettes.



MOTORBOATS, MINESWEEPERS, and SUBCHASERS-"R" BOAT

"R" BOAT CLASS

"R" BOAT

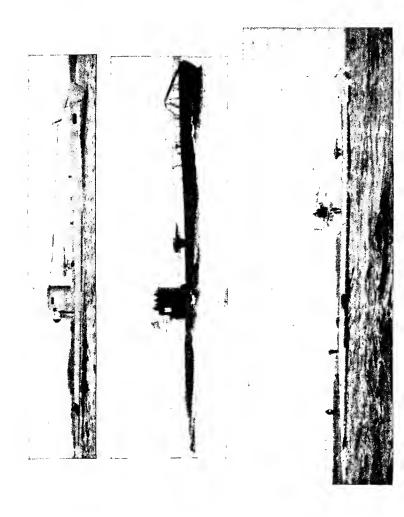
Description: 90 tons. 18 knots.

2-1 pound AA. Guns:

Torpedo tubes: None.

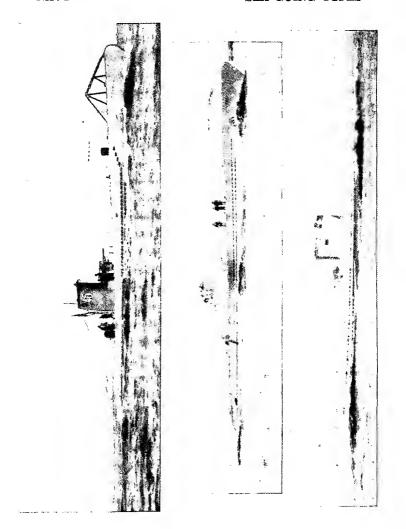
GERMAN NAVY

SUBMARINES OCEAN GOING TYPES



GERMAN NAVY

SUBMARINES SEA GOING TYPES



GERMAN NAVY

SUBMARINES COASTAL TYPES

